

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-327686

(43)Date of publication of application : 19.12.1995

(51)Int.Cl.

C12N 15/09  
C07K 14/02  
C07K 16/08  
C12P 21/08  
G01N 33/566  
G01N 33/576  
G01N 33/577  
// A61K 39/395

(21)Application number : 06-155125

(22)Date of filing : 02.06.1994

(71)Applicant : IMMUNO JAPAN:KK

(72)Inventor : OKAMOTO HIROAKI  
TAKAHASHI KAZUAKI

## (54) VARIANT TYPE PREX GENE OLIGONUCLEOTIDE OF HEPATITIS B VIRUS, POLYPEPTIDE AND METHOD FOR DETECTING THE SAME

(57)Abstract:

PURPOSE: To obtain the subject new oligonucleotide, having a specific base sequence, being a part of preX gene being a variant of hepatitis B virus and useful for examination, etc., for catching and estimating the change of morbid state of liver diseases due to hepatitis B virus.

CONSTITUTION: This new HBV variant type preX gene oligonucleotide has a base sequence expressed by formula I to formula VI and is a part of preX gene which is a variant of hepatitis B virus and used for examination, etc., for catching and estimating the change of morbid state of liver diseases due to HBV as a primer for amplifying preX gene. The oligonucleotide can be obtained by a chemical synthesis according to the conventional method. The HBV variant type preX gene is detected by carrying out the first stage amplification using the oligonucleotide of formula I or II and/or the oligonucleotide of formula V or VI as a primer pair and then carrying out the second stage amplification using the oligonucleotide of formula III or IV.

**AGGCTTTCAG TTCTCCGCA A** I

**TGCACAGCTG AAGCGAAGTC C** II

**GGCTATTGG CCATCACC** III

**CCGTGCCGAT CAGCTTCC** IV

**TCCGAAGTGT TTGCTGACGC** V

**AUGATCCAGT TGGCAACCACA** VI

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of

rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]